TOSHIBA OFFICIAL

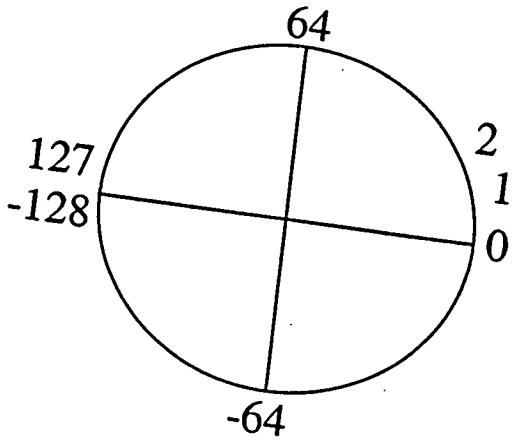

FIG. 1 (PRIOR ART)

TOSHIBA AMERICA

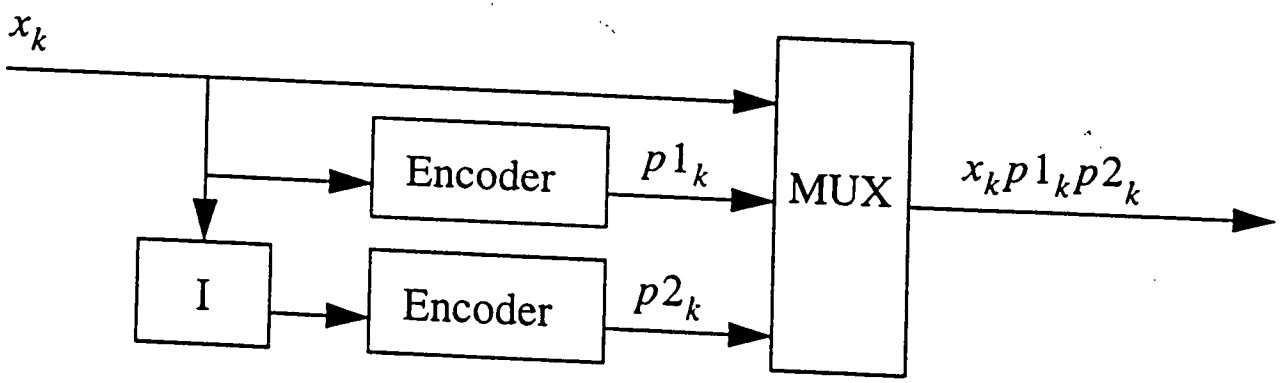

FIG. 2 (PRIOR ART)

TOSHIBA AMERICA

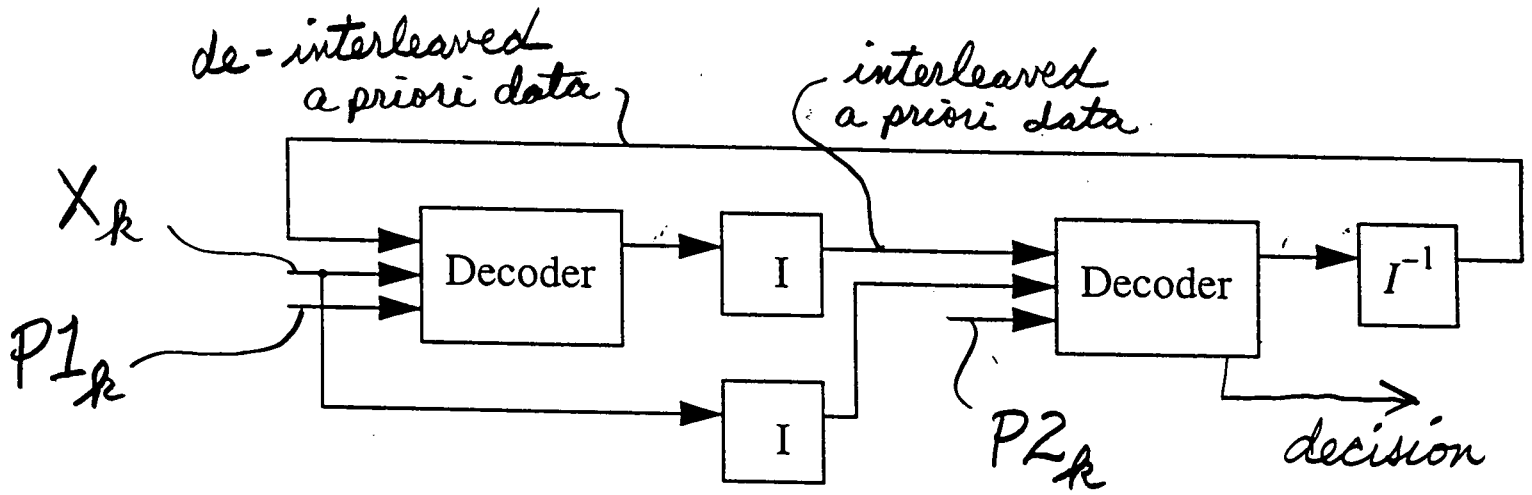

FIG. 3 (PRIOR ART)

TOSHIBA TELECOM

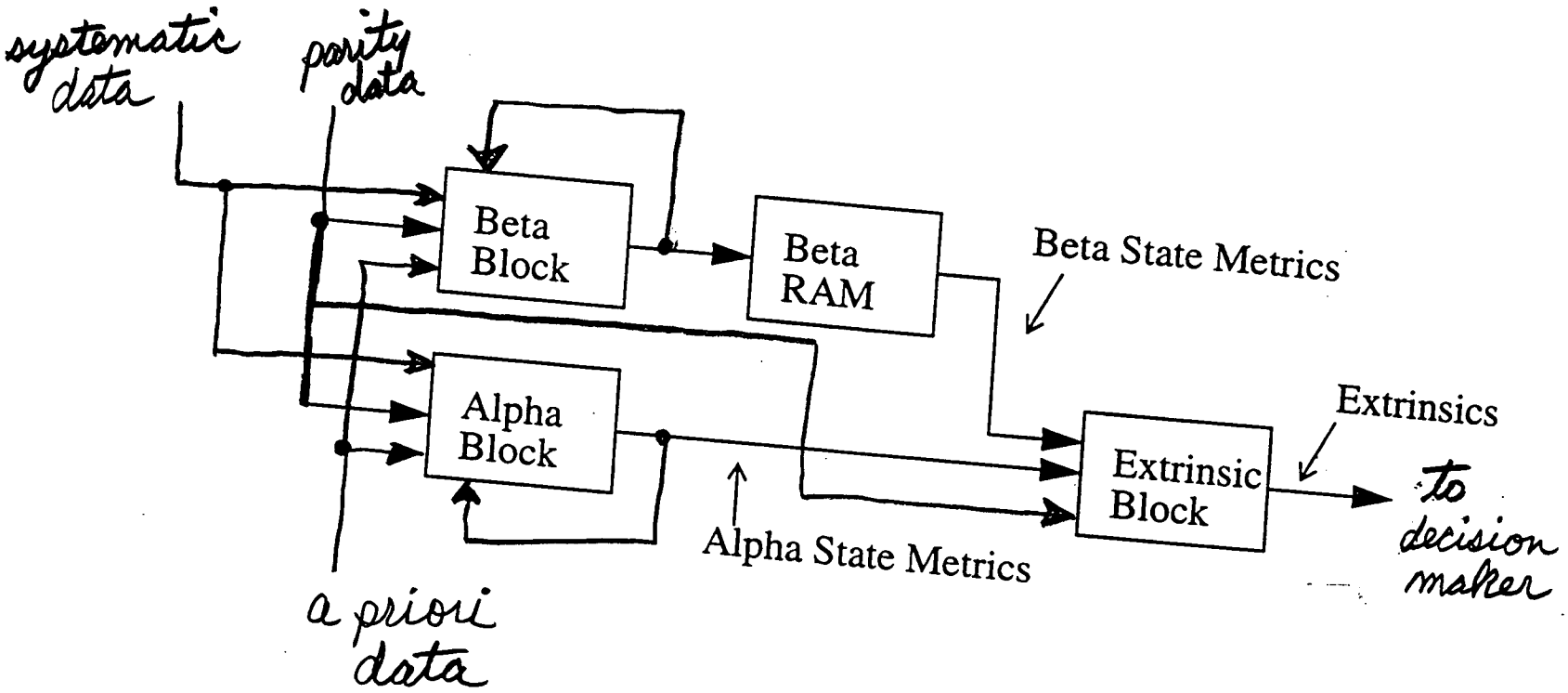

FIG. 4 (PRIOR ART)

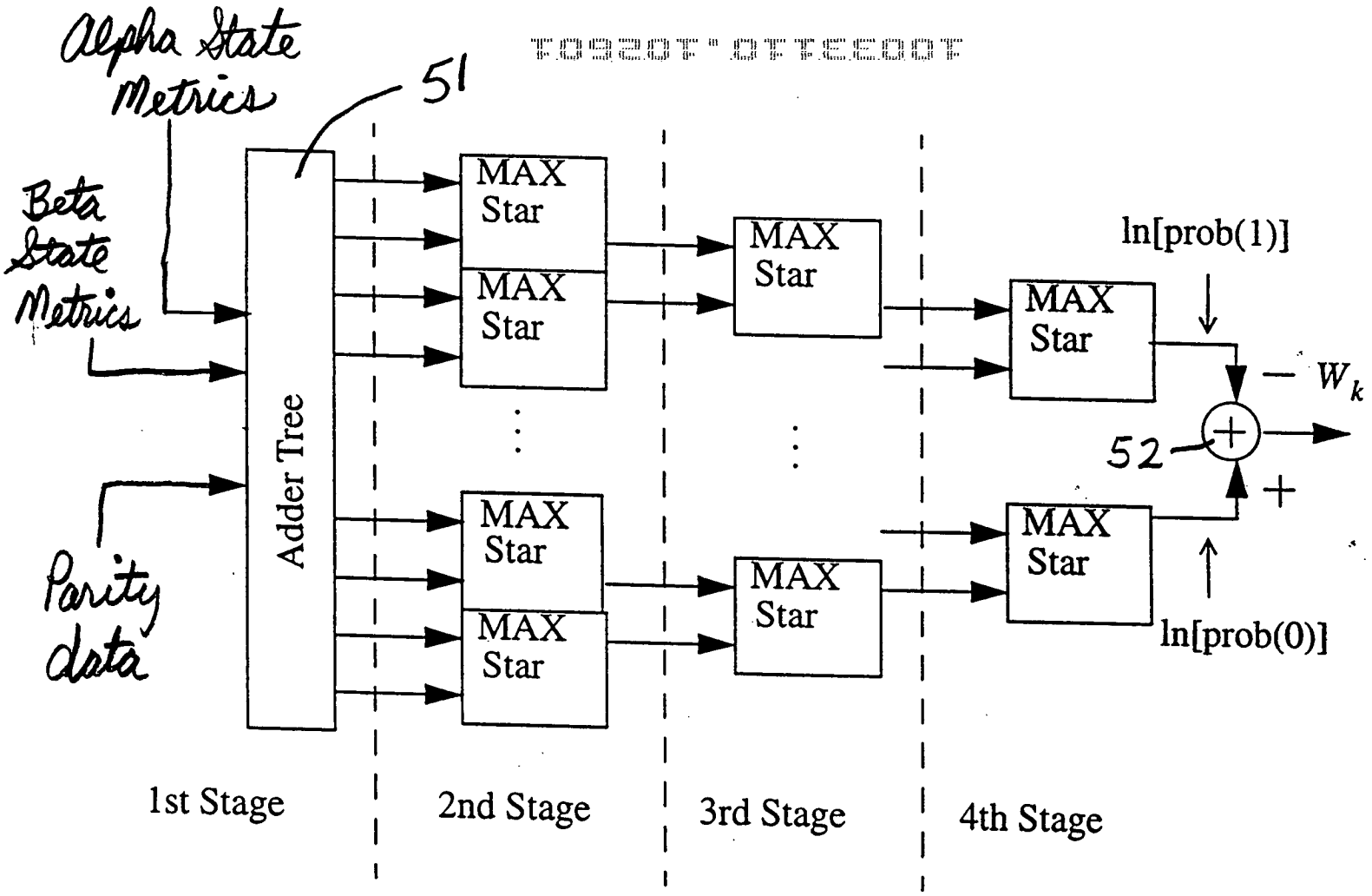

FIG. 5 (PRIOR ART)

T0920T"0TT2E00T

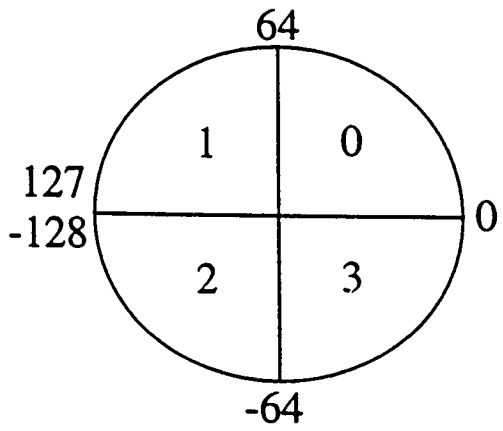

FIG. 6

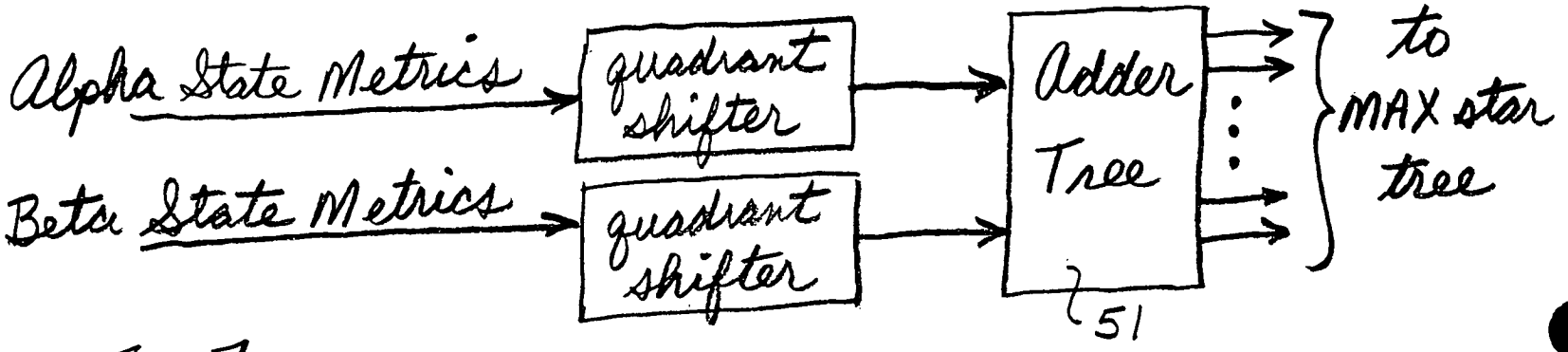
Alpha State Metrics
Beta State Metrics
quadrant shifter
quadrant shifter
Adder Tree
51
to MAX star tree

FIG. 7

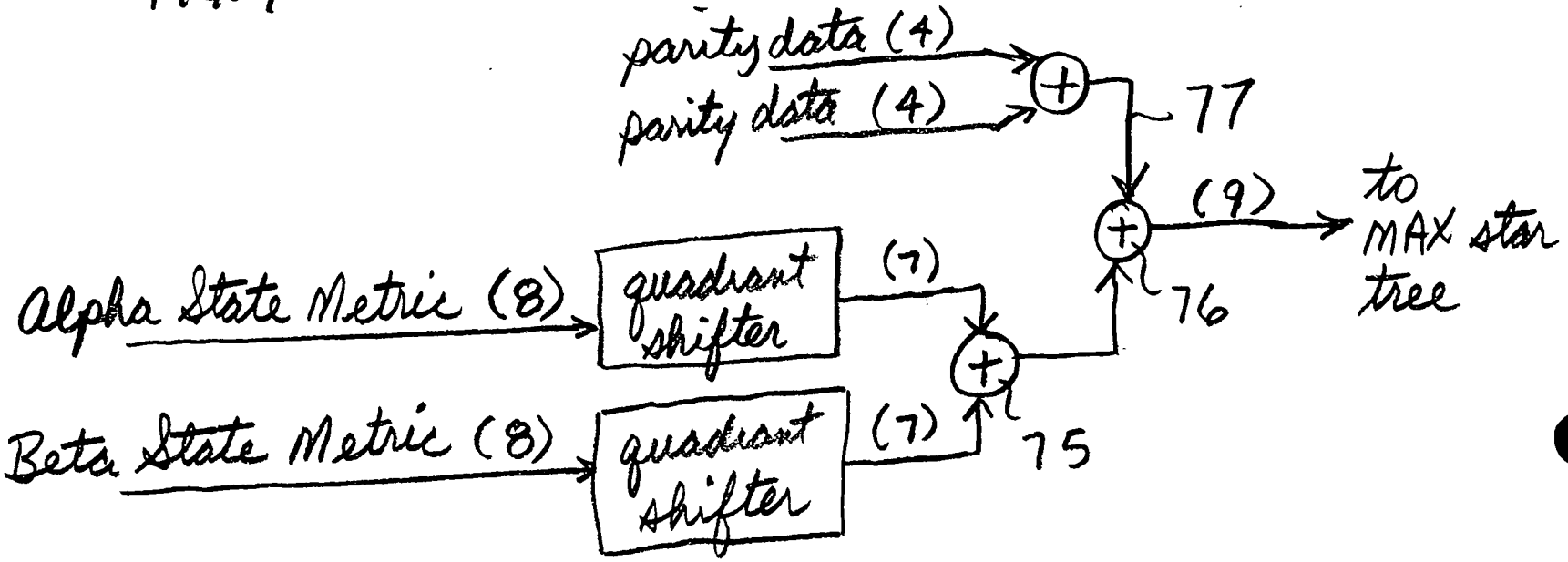
parity data (4)
parity data (4)
77
(9)
to MAX star tree
Alpha State Metric (8)
quadrant shifter
(7)
76
Beta State Metric (8)
quadrant shifter
(7)
75

FIG. 7A

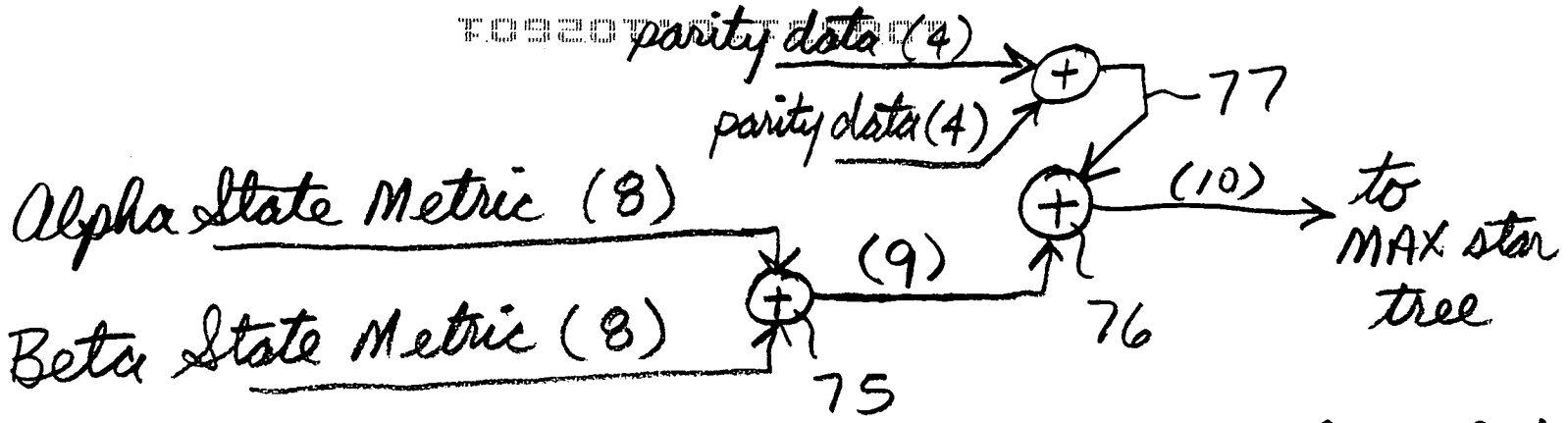

FIG. 8 (PRIOR ART)

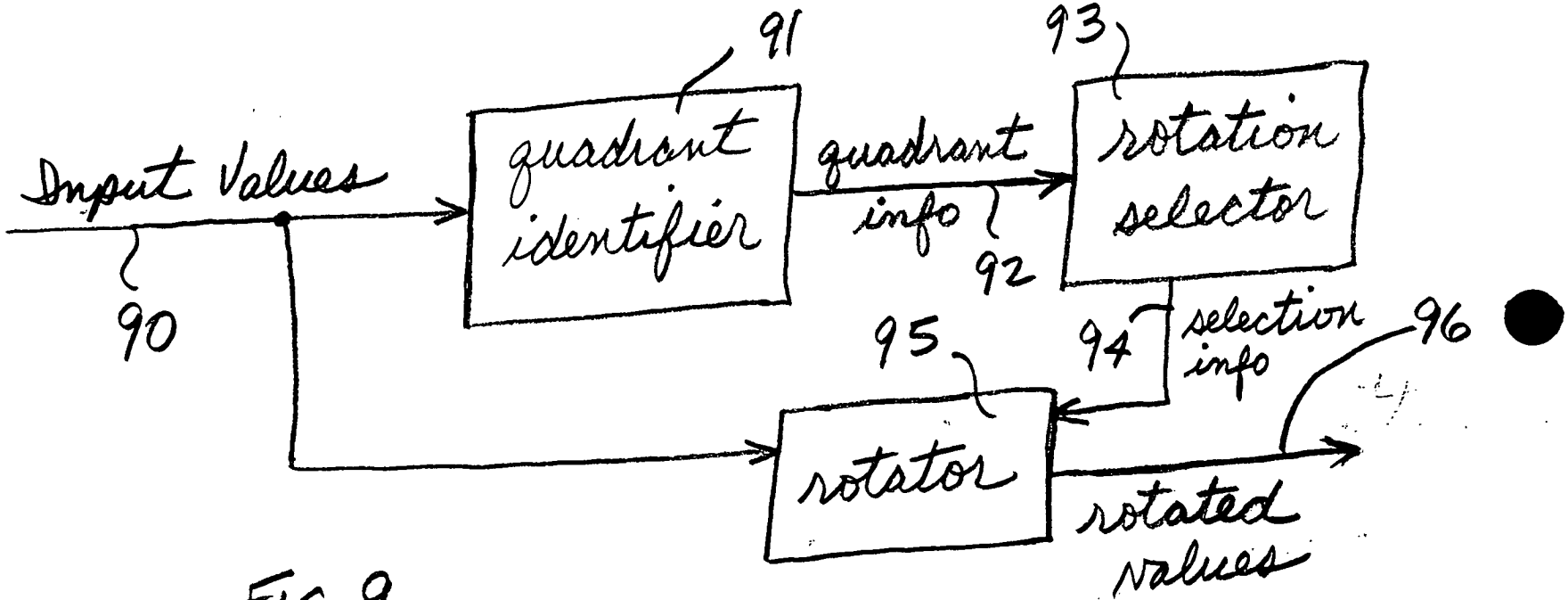

FIG. 9

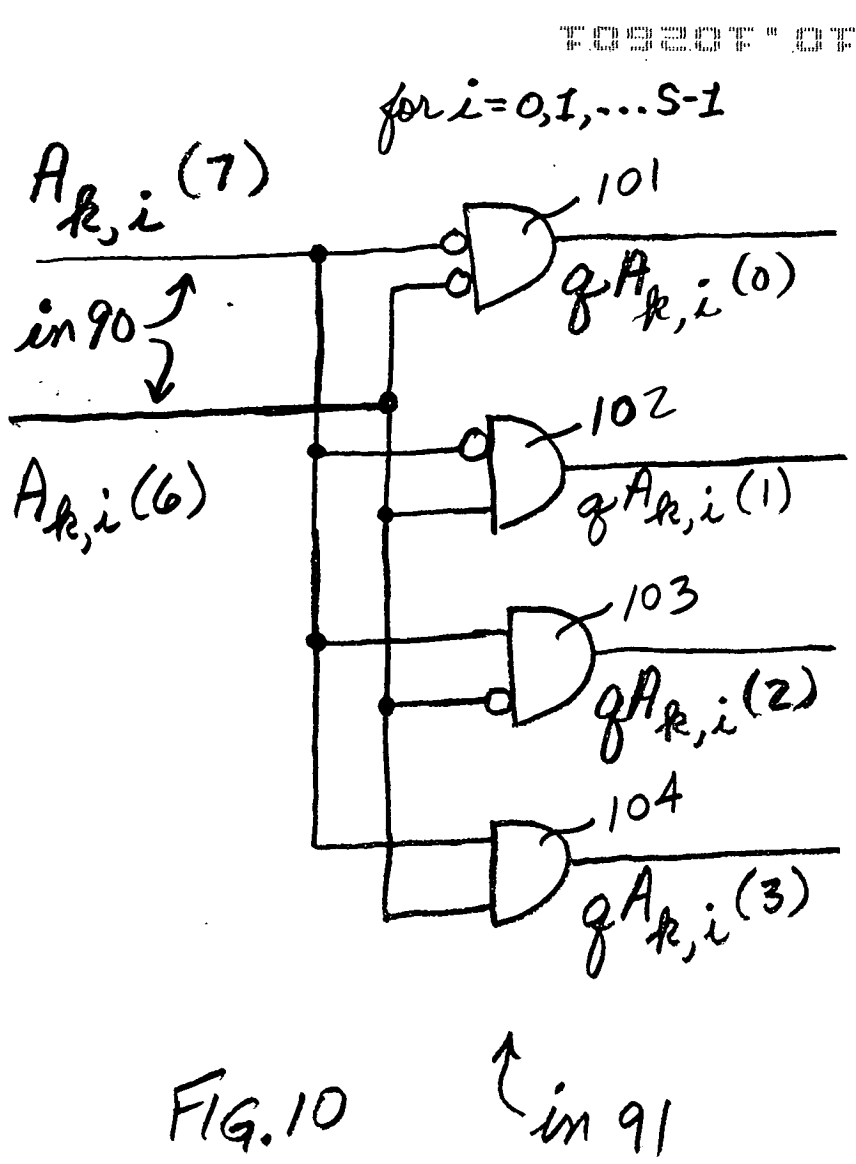
for i=0,1,...S-1
$A_{k,i}(7)$
in 90
$A_{k,i}(6)$
101
$qA_{k,i}(0)$
102
$qA_{k,i}(1)$
103
$qA_{k,i}(2)$
104
$qA_{k,i}(3)$
in 91

FIG. 10

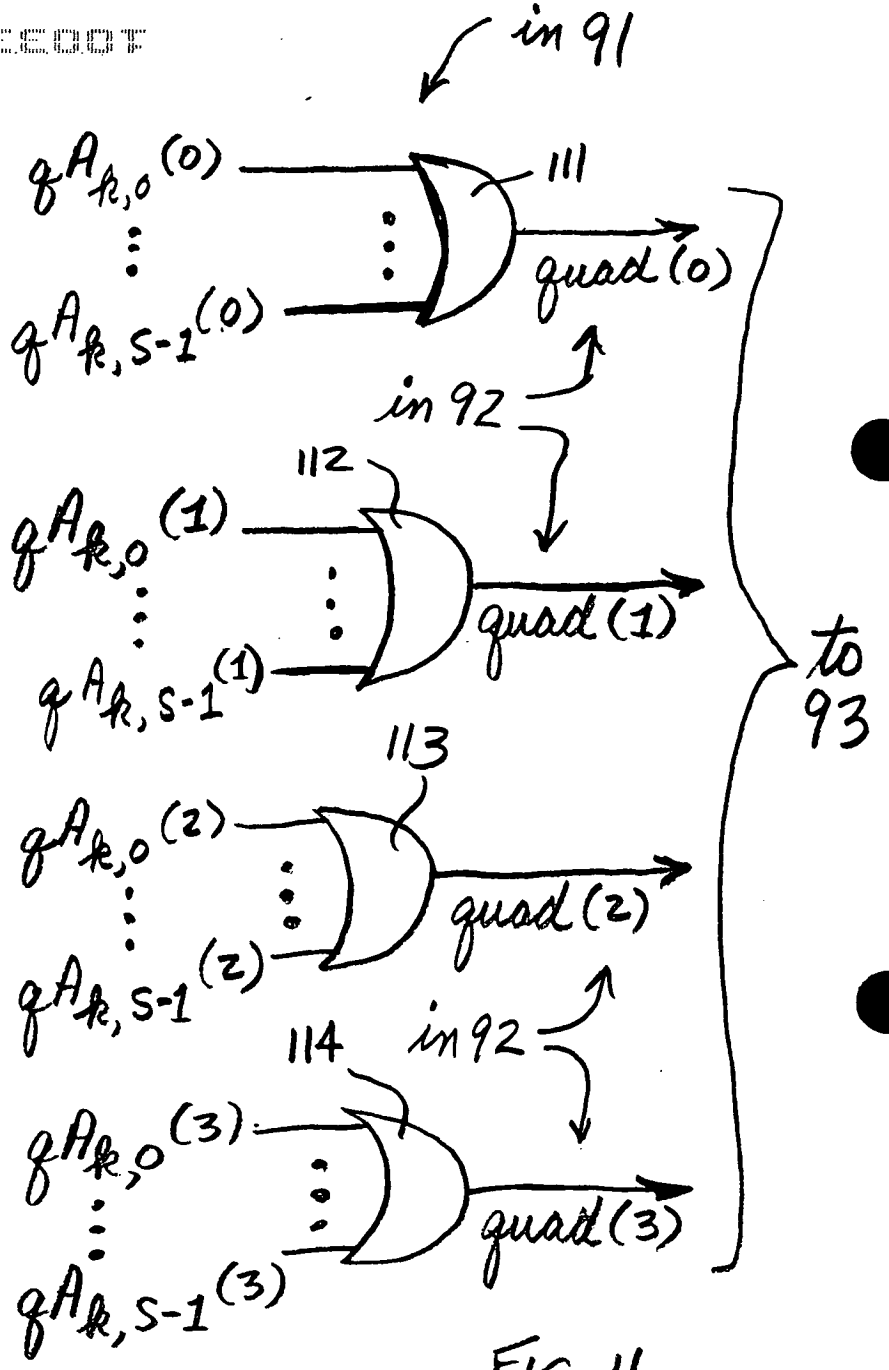
in 91
$qA_{k,0}(0)$
$qA_{k,S-1}(0)$
111
quad(0)
in 92
112
$qA_{k,0}(1)$
$qA_{k,S-1}(1)$
quad(1)
to 93
113
$qA_{k,0}(2)$
$qA_{k,S-1}(2)$
quad(2)
114
in 92
$qA_{k,0}(3)$
$qA_{k,S-1}(3)$
quad(3)

FIG. 11

input quadrant(s)	rotation operation	output quadrant(s)
0	-64	3
1	-64	0
0 and 1	-64	0 and 3
2	+64	3
1 and 2	+128	0 and 3
3	+64	0
2 and 3	+64	0 and 3
0 and 3	none	0 and 3

FIG. 12

T0920F "OFFICIAL"

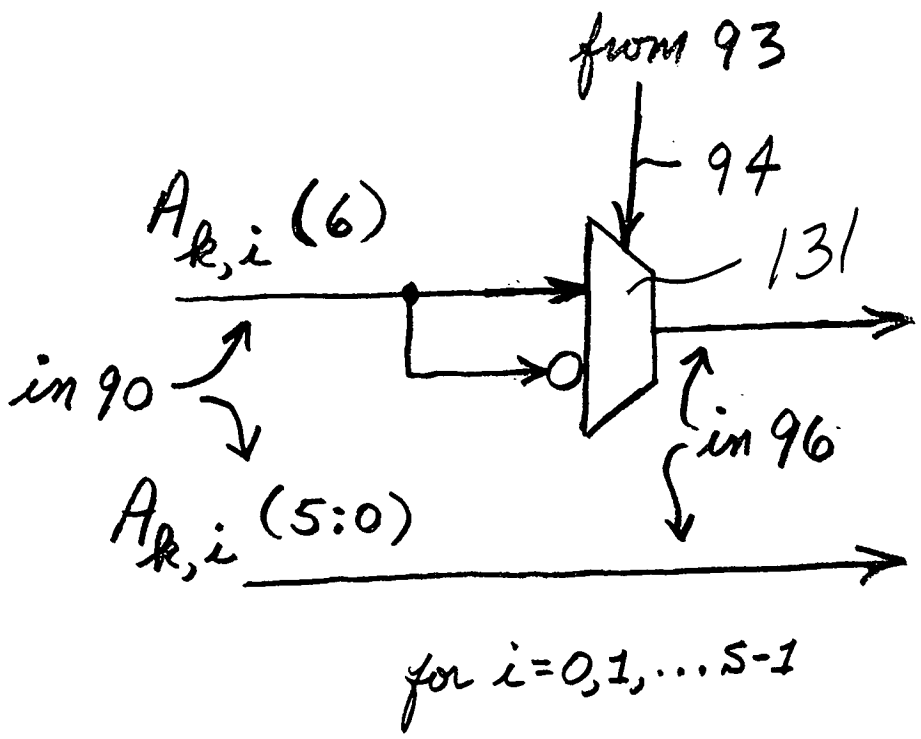

FIG. 13